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# A multi-tier RAID storage system with RAID1 and RAID5

Muppalaneni, N.   Gopinath, K.
Veritas Software India Pvt Ltd., Pune;

## Abstract

Redundant Arrays of Inexpensive Disks (RAID) is a popular technique used to improve the reliability and performance of secondary storage. Of various levels of RAID discussed, RAID1 and RAID5 have become more popular. Mirroring or RAID1 maintains multiple copies of the data, generally provides best performance and is easier to configure. Rotating parity scheme or RAID5 is the least expensive RAID scheme with good large update performance. It suffers from poor small update performance and performance drops sharply when a diskfails and the array enters degraded mode. Configuring RAID5 is more involved. This paper presents the design and implementation of a host-based driver for a mu tier RAID storage system, currently with 2 tiers: a small RAID1 tier and a larger RAID5 tier. Based on access patterns, th driver automatically migrates frequently accessed data to RAID1 while demoting not so frequently accessed data to RAID5. The prototype provides reliable persistence semantics for data migration between the tiers using ordered update Mechanisms are separated from policies through an API so that any desired policy can be implemented in trusted user processes. Finally, we present comparison of the performance of our system with comparable systems using striping and RAID5

## Index Terms
Inspec

**Controlled Indexing**
RAID   performance evaluation

**Non-controlled Indexing**
RAID storage system   RAID1   RAID5   Redundant Arrays of Inexpensive Disks   multi-tier RAID storage system   secondary storage   trusted user processes
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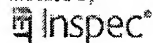Digital Object Identifier 10.1109/FUSION.1993.518465

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2002, May week 4b, news archive on STORAGEsearch.com
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Common API for transferring **remote files**/data over various protocols ... use **RAID**
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The **File** Transfer **Protocol** (FTP) and Your Firewall / Network ...
The **File** Transfer **Protocol** has held up remarkably well over the years. ... from the **remote**
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StarFish typically uses **synchronous** updates to a subset of the SEs for ... of the USENIX
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## Virtual disk image system with local cache disk for iSCSI ...

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Without VDS, each vendor's **storage device** often had its own management interface ... As
a result, high-fidelity **backup recovery** and **data** mining are possible ...
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Portable **RAID** up to 3.7TB
www.pricegrabber.com    Compare prices for Platinum **RAID**
available in FW/USB or SCSI

Survive 2 Drive Failures
www.adaptec.com    **RAID** 6 included with the latest Adaptec **RAID**
controllers

Product search results for **2002 raid backup storage devices**

Intel D915PBL - $158.72 - 110220volts.com
Asus K8V SE Deluxe VIA K8T800 Socket 754 Athlon 64
ATX ... - $123.00 - SHENTECH.COM
SK8V VIA K8T800 Socket a 3DDR400 AGP8X Motherboard
SK8V - $217.06 - Bytewize Computers

taint.org: Justin Mason's Weblog » Product idea: **RAID**
**Backup** ...
The first kind of fileset is amenable to an online **backup-storage**
service, at first glance. ... in the form of software **RAID** and the network
block **device**. ...
taint.org/2005/11/23/205656a.html - 45k - Cached - Similar pages

Computer **storage devices**: Information from
Answers.com
**RAID storage** systems allow several hard drives to work in concert as
a single, high capacity, relatively inexpensive, and dependable
memory **backup device**. ...
www.answers.com/topic/computer-**storage-devices** - 61k -
Cached - Similar pages

Linux Online - Vendors: Hardware::**Storage**
Description:, Manufactures and sells tape drives and other **storage**
**devices** that are compatible with Linux. Updated:, 28-May-**2002**
5:57am EDT ...
www.linux.org/vendor/hardware/**storage**.html - Similar pages

**storage device** resources on TechRepublic
Leveraging the advanced management capability of LEGATO
NetWorker and Quantum's full line of **storage devices**, this cloning-
based, enhanced **backup** solution ...
search.techrepublic.com.com/search/**storage**+device.html?
&c=1&s=20&m=20&o=0&i=0&t=0 - 75k - Feb 19, 2007 -
Cached - Similar pages

**raid** and **storage** resources on TechRepublic
Toward that end, Adaptec's **Storage** Solutions Group is developing next-generation
controllers for connecting servers to **RAID**-based **storage devices**. ...
search.techrepublic.com.com/search/**raid**+and+**storage**.html?

## <u>Storage magazine (Sep 2002) : Pick the right ATA array for **backup**</u>
Our Sponsors Find out more about this month's **Storage** magazine ... NAS **devices** Instead
of purchasing an ATA-based **RAID** array and connecting it to your ...
search**storage**.techtarget.com/magItem/0,291266,sid35_gci850728_idx2,00.html - 78k -
<u>Cached</u> - <u>Similar pages</u>

## <u>2002, March week 4b, **Storage** news archive on STORAGEsearch.com</u>
According to the agreements, Adaptec will supply **RAID** products to IBM for its ... Dantz
Retrospect **Backup** v5.0 supports more **storage devices** than any other ...
www.**storage**search.com/news**2002**-mar7.html - 34k - <u>Cached</u> - <u>Similar pages</u>

## <u>DSstar: October 22, 2002: Vol. 6, No. 42</u>
With wireless SANs -- combined with an increasing array of mobile **devices** able to access
them -- the reach and potential uses of these wireless **storage** ...
www.taborcommunications.com/dsstar/02/1022/021022.html - 25k - <u>Cached</u> - <u>Similar pages</u>

## <u>Computer **Storage Device** Manufacturing | Manufacturing > Computer ...</u>
The new **storage** system is a configurable, expandable **RAID** system in a . ... Calling for
**backup**: Maxtor taps Eric Kelly to head new **storage** group. ...
www.allbusiness.com/computer-electronic/computer-peripheral-equipment/2985843-1.html -
55k - <u>Cached</u> - <u>Similar pages</u>

## <u>Storage magazine (Oct 2002) : Easing the Pain of NAS **Backup** Headaches</u>
Easing the Pain of NAS **Backup** Headaches Issue: Oct **2002**. Installing NAS **device** after
NAS **device** may be as easy as pie, but backing them all up can be a ...
**storage**magazine.techtarget.com/strgTrend/1,291266,sid35_gci856684_login,00.html - 73k
- <u>Cached</u> - <u>Similar pages</u>

## <u>News archive results for **2002 raid backup storage devices**</u>
2002 » <u>**Backup** Window Shrinks, but Not the Cost</u> - eWeek
2002 » <u>Disk-based **backup** options multiply.</u> - $9.95 - InfoStor
2002 » <u>Disk-based **backup** options multiply.</u> - $9.95 - InfoStor

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## [PDF] Hybrid RAID-Tape-Library Storage System for Backup
File Format: PDF/Adobe Acrobat
RAID-Tape-Library **Device** comprises a **RAID** and a tape. library which
are connected by SCSI channel. And the. hybrid **storage device**
attaches the **Backup** server ...
ieeexplore.ieee.org/iel5/10706/33796/01609854.pdf - Similar pages

## Storage magazine (Sep 2002) : Pick the right ATA array for backup
How you use these **RAID** arrays in your **backup** system depends on
your ... NAS **devices** Instead of purchasing an ATA-based **RAID** array
and connecting it to your ...
searchvb.techtarget.com/magItem/0,291266,sid35_gci850728,00.html -
97k - Cached - Similar pages

## CEI - RAID Toolbox Press Releases
Keywords: **RAID**, **Backup**, **Storage**, Microsoft, Hardware, Software, ...
single volume and multiple disk arrays on both external and internal
**storage devices**. ...
www.**raid**toolbox.com/pressrelease.html - 20k - Cached - Similar pages

## Storage magazine (Sep 2002) : Pick the right ATA array for backup
How you use these **RAID** arrays in your **backup** system depends on
your ... want to use this inexpensive **RAID** array as the destination
**device** for its backups. ...
search**storage**.techtarget.com/
magItem/0,291266,sid35_gci850728,00.html - 77k -
Cached - Similar pages

## Back-burner storage | InfoWorld | Column | 2002-11-01 | By Scott ...
In fact, the CX30 emulates tape **devices** -- major **backup** software products "see" the CX30
as an array of ... Cost effective SATA **RAID** for Reliable **Storage** ...
www.infoworld.com/article/02/11/01/021104op**storage**_1.html - 87k -
Cached - Similar pages

## Archive Storage: Evolving into Mainstream Storage Solutions ...
Now consider what is paid by a large company in primary **storage** (RAID), ... Single point
management—the ability to manage all **storage devices** from a single ...
www.**storage**search.com/pegasusart2.html - 19k - Cached - Similar pages

## Storage device, backup method and computer program code of this ...
Such an online **backup** method making use of the **RAID** system **storage device** can be
regarded as an appropriate method since it does not require a specific ...
www.freepatentsonline.com/7152184.html - 65k - Cached - Similar pages

## Storage UPDATE, September 16, 2002
**Storage devices** range from Just a Bunch of Disks (JBOD) to highly redundant and
intelligent **RAID** enclosures that scale to meet the needs of the largest ...

www.windowsitpro.com/Article/ArticleID/26934/26934.html - <u>Similar pages</u>

### Hot Tip 11 zip drive tape drive cd cdrw burners dvd burners dvd ...
10/16/**2002** Zip750, updates 12/29/**2002 Raid** 1, Faster CDRW, DVD Writer. Introduction ...
We have created a table with the currently available **backup devices. ...**
techbargains.com/hottips/hottip11/index.cfm - 48k - <u>Cached</u> - <u>Similar pages</u>

### **Storage** Networking Fundamentals, Adobe Reader - $32.00
An Introduction to **Storage Devices**, Subsystems, Applications, Management, ... **storage**
virtualization, data snapshots, mirroring, **RAID, backup, ...**
www.informit.com/title/1587052865 - 22k - <u>Cached</u> - <u>Similar pages</u>

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Scholarly articles for **2002 storage devices disaster recovery**

SnapMirror: File-System-Based Asynchronous Mirroring for ... - Patterson - Cited by 55
Transaction Processing: Concepts and Techniques - Gray - Cited by 2101
System and method for the prevention of corruption of ... - Kelman - Cited by 4

**storage device and disaster recovery resources on TechRepublic**
All results for storage device... and **disaster recovery** (7 results) ...
outage, Tivoli **Storage** Manager: **2002**-01-17: White papers; Enterprises Ignore **Disaster ...**
search.techrepublic.com.com/search/
**storage**+device+and+**disaster**+**recovery**.html?&c=1&s=0&m=20&am...
- 60k - Cached - Similar pages

## Disaster Recovery in the 21st Century
In the business world, companies are talking about **disaster recovery**
like never ... Historical data are moved to off-line **storage devices**,
resulting in ...
support.novell.com/techcenter/articles/nc**2002**_04f.html - 52k -
Cached - Similar pages

## VERITAS >> Resources >> Press Room >> Press Release
**Disaster Recovery** Fire Drill - Provides capabilities to freely test, ... to manage multiple
operating systems across **storage devices** and databases, ...
www.veritas.com/en/UK/resources/press/PressReleaseDetail.jhtml?
newsCl=61677_2004_03_16_pr - 27k - Cached - Similar pages

## Sys Admin > **Disaster Recovery** with Tivoli **Storage** Manager
In this article, I will discuss how to use the **Disaster Recovery** Module (DRM) of ... The
**storage devices** can also vary (e.g., IBM tape libraries, STK silos, ...
www.samag.com/articles/2001/0109//documents/sam0109b/ - 21k - Cached - Similar pages

## **Storage** magazine (Mar **2002**) : The new face of **disaster recovery**
"You need to architect it so that it looks like the **storage devices** are next to each ... The
new face of **disaster recovery** by: Laura Smith Issue: Mar **2002** ...
searchstorage.techtarget.com/magItem/0,291266,sid35_gci805515_idx3,00.html - 102k -
Cached - Similar pages

## [PDF] A **Disaster Recovery** System Model in an E-government System*
File Format: PDF/Adobe Acrobat
Network Attached **Storage Devices** (Diss), Michigan State. University, East Lansing, USA,
**2002**. [4] P.E. Nasim-uddin and D. Engi, "**Disaster** Management ...
ieeexplore.ieee.org/iel5/10544/33357/01578907.pdf?arnumber=1578907 - Similar pages

## DSstar: July 16, **2002**: Vol. 6, No. 28

**STORAGE** ACCESS LAUNCHES DEDICATED **DISASTER RECOVERY Storage** Access
Technologies Inc, a provider of data ... Dot Hill Expects Revenue Growth In Q2, **2002** ...
www.taborcommunications.com/dsstar/02/0716/020716.html - 22k - Cached - Similar pages

## Storage area network - Wikipedia, the free encyclopedia
A **storage** system consisting of **storage** elements, **storage devices**, computer systems, ...
SANs also tend to enable more effective **disaster recovery** processes. ...
en.wikipedia.org/wiki/**Storage**_area_network - 42k - Cached - Similar pages

## Lead Story - Novell **Disaster Recovery** and Business Continuity ...
The answer is easy: With business continuity and **disaster recovery** solutions ... from their
local **storage device** should the main data center be affected. ...
www.novell.com/news/leadstories/**2002**/apr24/ - 31k - Cached - Similar pages

## Disaster recovery system ensures 100% uptime - Trends ...
The system uses the UltraNet **Storage** Director from CNT (www.cnt.com), ... Prior to the
new **disaster-recovery** solution, employee and customer data that drove ...
findarticles.com/p/articles/mi_m0CMN/is_1_39/ai_82350309 - 31k - Cached - Similar pages

## News archive results for **2002 storage devices disaster recovery**

2002 » **Storage** trade group takes reins on bluefin proposal **...** - $6.95 - Computerworld

2002 » Mainline **Disaster Recovery** Services Equipment **...** - $95.00 - GARTNER GROUP'S
DATAQUEST

2002 » Keeping up with **storage** demands - FCW.com

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Scholarly articles for **2002 raid storage devices disaster recovery**
Trends in PACS image storage and archive - Liu - Cited by 18
CoStore: a reliable and highly available storage system ... - Chen -
Cited by 8
System and method for the prevention of corruption of ... - Kelman
- Cited by 4

**storage device** resources on TechRepublic
One benefit is the ability to share a single large **storage device** across
many ... speed the **disaster recovery** process if a **storage device** was
inaccessible, ...
search.techrepublic.com.com/search/**storage**+device.html?
&c=1&s=20&m=20&o=0&i=0&t=0 - 75k - Feb 19, 2007 -
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**storage** and **storage device** resources on TechRepublic
All results for**storage**... and **storage device** (144 results) ... solution that would speed the
**disaster recovery** process if a **storage device** was inaccessible, ...
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**STORAGE** ACCESS LAUNCHES DEDICATED **DISASTER RECOVERY** ... And because
today's **RAID** systems are consuming a significant portion of IT budgets, companies are ...
www.taborcommunications.com/dsstar/02/0716/020716.html - 22k - Cached - Similar pages

**Disaster recovery** -- a checklist - ZDNet UK
Make **disaster recovery** an integral part of the way your business runs. ... whether it's a
**RAID storage** system, server mirroring or even a complete duplicate ...
news.zdnet.co.uk/hardware/0,1000000091,2124350,00.htm - 48k - Cached - Similar pages

Business Continuity and **Disaster Recovery**
Segment, 2001, **2002**, 2003, 2004, 2005, 2006. **Disaster Recovery**, 2114, 2223 ... NAS
**devices** manage their **storage** intelligently on one or more servers for ...
www.aiim.org/article-docrep.asp?ID=29114 - 52k - Cached - Similar pages

**Disaster Recovery** in the 21st Century
In the business world, companies are talking about **disaster recovery** like never ...
Historical data are moved to off-line **storage devices**, resulting in ...
support.novell.com/techcenter/articles/nc2002_04f.html - 52k - Cached - Similar pages

Fault-tolerant back-up archive using an ASP model for **disaster** ...
Few current PACS archives feature **disaster recovery**, but the design is ... A back-up

archive server and **RAID storage device** is implemented offsite from the **...**
adsabs.harvard.edu/abs/**2002**SPIE.4685...89L - Similar pages

## TechExams.Net - Network+ TechNote: Fault Tolerance & **Disaster Recovery**
Free study guide covering the Fault Tolerance & **Disaster Recovery** exam objectives. ... In
modern configuration the nodes connect to a shared **storage device ...**
www.techexams.net/technotes/networkplus/fault_disast.shtml - 35k -
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## [PDF] IP Telephony **Storage** White Paper - PDF
File Format: PDF/Adobe Acrobat - View as HTML·
**Disaster Recovery**: Prepare for and recover from remote server failure by backing up to
or ... GB+ to a locally attached SCSI **RAID storage device** to an open **...**
www.alliancesystems.com/Documents/ip_telephony.pdf - Similar pages

## **Storage** UPDATE, September 16, **2002**
**Storage devices** range from Just a Bunch of Disks (JBOD) to highly ... David discusses the
importance of **disaster recovery** in the event of a catastrophe. **...**
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2002 » The Technion--Israel Institute of Technology Deploys **...** - $9.95 - Business Wire
2002 » **Storage** trade group takes reins on bluefin proposal **...** - $6.95 - Computerworld
2002 » Disk-based backup options multiply. - $9.95 - InfoStor

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**11** Data file server for performing data-file transaction processes as a reaction to data file transaction requests by clients, uses first transaction protocol for storage of higher-authority data transaction process information

Inventor: MACHARDY JUN EARLE TROUNSON (US); FOREST MILES ARAM DE (US)

Applicant: EMC CORP HOPKINTON (US)

EC: G06F11/07P10; G06F11/14A4C

IPC: *G06F12/00; G06F11/07; G06F11/16* (+8)

Publication info: **DE10124482** - 2001-12-06

**12** Data interexchange protocol

Inventor: SINGH MONMOHAN L (US)

Applicant:

EC: H04L29/06C5

IPC: *H04L29/06*; H04L29/06; (IPC1-7): G06F7/00

Publication info: **US2002152219** - 2002-10-17

**13** Method and apparatus for automatic monitoring of simple network management protocol manageable devices

Inventor: COCHRAN CHARLES W (US); YORK JUSTIN E (US); (+2)

Applicant: HEWLETT PACKARD DEVELOPMENT CO (US)

EC: H04L12/26M

IPC: *H04L12/26*; *H04L12/24*; **H04L12/26** (+2)

Publication info: **US6832247** - 2004-12-14

**14** Octet iterator template interface for protocol transfer syntax coding services

Inventor: OLIVER CHRISTOPHER (US)

Applicant:

EC: H04L29/06

IPC: *H04L29/06*; H04L29/06; (IPC1-7): G06F9/45

Publication info: **US6256778** - 2001-07-03

**15** FAULT TOLERANT NFS SERVER SYSTEM AND MIRRORING PROTOCOL

Inventor: KANDASAMY DAVID R; BUTLER MITCHEL B; (+6)

Applicant: AUSPEX SYSTEMS INC (US)

EC: G06F11/00C; G06F11/14A4B5; (+2)

IPC: *G06F3/06; G06F9/46; G06F11/00* (+16)

Publication info: **WO9623259** - 1996-08-01

**16** TRANSFER SYSTEM AND METHOD BETWEEN DIFFERENT COMMUNICATION PROTOCOL FILES

Inventor: BABA YASUSHI

Applicant: KYUSHU NIPPON DENKI SOFTWARE

EC:

IPC: *G06F13/00*; G06F13/00; (IPC1-7): G06F13/00 (+1)

Publication info: **JP9091213** - 1997-04-04

**17** PROTOCOL DATA ANALYSIS SYSTEM

Inventor: MINAMIZAWA HITOSHI

Applicant: NEC SOFTWARE HOKKAIDO

EC:

IPC: *G06F13/00; H04L29/14*; G06F13/00 (+3)

Publication info: **JP4239847** - 1992-08-27

**18** MULTI-PROTOCOL FILE TRANSFER DEVICE

Inventor: FUJINO HIROYUKI; OZAWA YOICHI; (+3)

Applicant: NIPPON DENKI JOHO SERVICE KK

EC:

IPC: *G06F12/00; G06F13/00*; G06F12/00 (+3)

Publication info: **JP3078058** - 1991-04-03

**RESULT LIST**
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**protocol** in the title AND **files and storage** in the title or abstract
(Results are sorted by date of upload in database)

**1**  **IP storage control method based on iSCSI protocol and apparatus thereof**

Inventor: ZHOU JINGLI ZENG (CN)

Applicant: HUAZHONG UNIV OF SCIENCE AND T (CN)

EC:

IPC: *H04L29/06*; H04L29/06

Publication info: **CN1753406** - 2006-03-29

**2**  **Apparatus and method for improved transfer of files using an internet protocol**

Inventor: KRIDNER JASON D (US)

Applicant:

EC:

IPC: *G06F15/16*; G06F15/16

Publication info: **US2006069789** - 2006-03-30

**3**  **COMMUNICATIONS SYSTEM PROVIDING EXTENSIBLE PROTOCOL TRANSLATION AND CONFIGURATION FEATURES AND RELATED METHODS**

Inventor: CLARKE DAVID JAMES (US)

Applicant: TEAMON SYSTEMS INC (US)

EC:

IPC: *G06F15/16; G06F15/16*; G06F15/16 (+2)

Publication info: **CA2533286** - 2005-03-03

**4**  **Method and system for transparent encryption and authentication of file data protocols over internet protocol**

Inventor: CHANDRASHEKHAR GANESAN (US);
SAWHNEY SANJAY (US); (+3)

Applicant: NEOSCALE SYSTEMS INC (US)

EC: H04L29/06C6C2

IPC: *H04L9/00; H04L29/06*; H04L9/00 (+2)

Publication info: **US2005033988** - 2005-02-10

**5**  **MULTI-PROTOCOL STORAGE APPLIANCE THAT PROVIDES INTEGRATED SUPPORT FOR FILE AND BLOCK ACCESS PROTOCOLS**

Inventor: PAWLOWSKI BRIAN; SRINIVASAN MOHAN;
(+3)

Applicant: NETWORK APPLIANCE INC (US)

EC: G06F3/06M; G06F17/30F; (+1)

IPC: *G06F13/10; G06F3/06; G06F12/00* (+6)

Publication info: **WO2004015521** - 2004-02-19

**6**  **LOGICAL ACCESS BLOCK PROCESSING PROTOCOL FOR TRANSPARENT SECURE FILE STORAGE**

Inventor: PHAM DUC; NGUYEN TIEN; (+2)

Applicant: VORMETRIC INC (US)

EC: H04L29/06C6B

IPC: *G06F11/30; G06F15/16; G06F15/173* (+12)

Publication info: **WO2004010630** - 2004-01-29

**7**  **ADVANCED AUDIO PROCESSING SYSTEM COMMUNICATION PROTOCOL**

Inventor: BAEUMLE JUERGEN (DE); DUTTLINGER
OLIVER (DE); (+2)

Applicant: THOMSON LICENSING SA (FR); BAEUMLE
JUERGEN (DE); (+3)

EC: G11B19/02; G11B27/10A1

IPC: *G11B19/02; G11B27/10*; G11B19/02 (+3)

Publication info: **WO03105154** - 2003-12-18

**8**  **SYSTEM UPDATE PROTOCOL AND BOOTABLE CD CONTROLLER WITH EMBEDDED OPERATING SYSTEM**

Inventor: WU VINCENT (US); LEE SHENG (US)

Applicant: TOKYO SHIBAURA ELECTRIC CO (JP);
TOSHIBA TEC KK (JP); (+2)

EC: G06F9/445E

IPC: *B41J29/38; G06F3/12; G06F9/445* (+8)

Publication info: **WO03100610** - 2003-12-04

**9**  **Peer-to-peer file sharing system and method using user datagram protocol**

Inventor: PEARSON CHRISTOPHER JOEL (US)

Applicant:

EC: G06F17/30H; G06F17/30N; (+6)     IPC: *G06F17/30; H04L29/06; H04L29/08* (+7)

Publication info: **US2003028610** - 2003-02-06

**10  Remote execution of operations on a networked computer system terminal, a communication protocol initializing mechanism is introduced into each target machine by a pre-installation machine**

Inventor: HAMARD JEAN CLAUDE; FAVRIN CLAUDE; (+1)     Applicant: EVIDIAN (FR)

EC: G06F9/44W4     IPC: *G06F9/44; G06F9/445*; G06F9/44 (+3)

Publication info: **FR2825165** - 2002-11-29

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Approximately **646** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
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**1**  **Portable device and automatic backup method of computer data on the device**
Inventor: LIAO CHEEN (TW); CHANG CHIA-HSU (TW);  Applicant: SYNOLOGY INC (TW)
(+4)
EC: G06F11/14A4B1H                          IPC: *G06F11/14; G06F13/00*; G06F11/14 (+1)
Publication info: **EP1746506** - 2007-01-24

**2**  **ELECTRONIC DEVICE WITH AN AUTOMATIC BACKUP FUNCTION**
Inventor: HONG CHUNG-JEN (TW); LU KUO-PING (TW)  Applicant: ASUSTEK COMP INC (TW)
EC:                                         IPC: *G06F9/455*; G06F9/455
Publication info: **US2007010986** - 2007-01-11

**3**  **Data storage device and medium and related method of storing backup data**
Inventor: LEE SUNG-WOO (KR)                 Applicant:
EC:                                         IPC: *G06F12/16*; G06F12/16
Publication info: **US2007011416** - 2007-01-11

**4**  **A storage system having real-time mirror backup function**
Inventor: HAN SHIU (TW)                     Applicant: OMNIDIRECTIONAL CONTROL TECHNO (TW)
EC:                                         IPC: (IPC1-7): G06F12/16
Publication info: **TW256550B** - 2006-06-11

**5**  **Discovering data storage for backup**
Inventor: HELLIKER FABRICE (GB)             Applicant:
EC:                                         IPC: *G06F12/16*; G06F12/16
Publication info: **US2006282631** - 2006-12-14

**6**  **CRYOGENIC COOLING SYSTEM AND METHOD WITH BACKUP COLD STORAGE DEVICE**
Inventor: STEINBACH ALBERT E (US)           Applicant: GEN ELECTRIC (US)
EC: F25D16/00                               IPC: *F25B7/00*; F25B7/00
Publication info: **US2006266054** - 2006-11-30

**7**  **Portable computer and data backup method thereof**
Inventor: TSAI HSIN-FENG (TW); CHEN CHUN-CHING  Applicant:
(TW)
EC:                                         IPC: *G06F1/00*; G06F1/00
Publication info: **US2006259795** - 2006-11-16

**8**  **Information sharing between a backup storage device and a management appliance**
Inventor: BALLARD CURTIS C (US); FLEISCHMANN  Applicant:
MIKE P (US); (+2)
EC:                                         IPC: *G06F12/16*; G06F12/16
Publication info: **US2006259720** - 2006-11-16

**9**  **INJECTION-MOLDING BACKUP DEVICE, INJECTION-MOLDING SYSTEM AND INJECTION-MOLDING BACKUP CONTROL METHOD**
Inventor: TAKAHASHI HIROKO; MATSUMURA NORIAKI;  Applicant: MITSUBISHI HEAVY IND PLASTIC T
(+3)
EC:                                         IPC: *B29C45/76*; B29C45/76
Publication info: **JP2006289874** - 2006-10-26

**10**  **METHOD FOR MANAGING DATA STORED IN MOBILE**

# COMMUNICATION APPARATUS, BACKUP SERVER, AND SERVICE DEVICE

Inventor: KINOSHITA MASAFUMI; TAKAHASHI YASUHIRO; (+1)

Applicant: HITACHI LTD

EC:

IPC: *H04Q7/38; H04M1/725; H04M11/00* (+3)

**RESULT LIST**
Approximately **646** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
(Results are sorted by date of upload in database)

**11    DATA BACKUP SYSTEM**

Inventor: UENO HIDETOSHI (JP); KAKAMI KENTARO (JP); (+3)

Applicant: NTT DOCOMO INC (JP); UENO HIDETOSHI (JP); (+4)

EC:

IPC: *G06F21/24; G06F12/00; H04M3/00* (+7)

Publication info: **WO2006121077** - 2006-11-16

**12    Backup method and storage control device using the same**

Inventor: OKA NOBUYUKI (JP)

Applicant: HITACHI LTD (JP)

EC:

IPC: *G06F3/06; G06F11/00; H04L1/22* (+3)

Publication info: **US2006253734** - 2006-11-09

**13    DEVICE AND METHOD FOR BACKUP EASY TO PERFORM BACKUP/RECOVERY**

Inventor: SON MI AE

Applicant: SAMSUNG ELECTRONICS CO LTD

EC:

IPC: *G06F9/06*; G06F9/06; (IPC1-7): G06F9/06

Publication info: **KR20040069510** - 2004-08-06

**14    DEVICE AND METHOD FOR DATA BACKUP USING SAN SWITCH**

Inventor: YOON HYEONG SU

Applicant: LGNSYS INC

EC:

IPC: *G06F12/16*; G06F12/16; (IPC1-7): G06F12/16

Publication info: **KR20040053660** - 2004-06-24

**15    Method and system for data processing with data backup**

Inventor: KAWAMURA NOBUO (JP)

Applicant:

EC:

IPC: *G06F12/16; G06F17/30; G06F12/00* (+3)

Publication info: **US2006248125** - 2006-11-02

**16    PORTABLE DATA STORAGE DEVICE FOR PERFORMING DATA BACKUP FUNCTION**

Inventor: SONG WOO SEOK (KR)

Applicant: POINCHIPS CO LTD (KR)

EC:

IPC: *G06F1/00*; G06F1/00; (IPC1-7): G06F1/00

Publication info: **KR20050078027** - 2005-08-04

**17    PORTABLE MEMORY CARD BACKUP DEVICE, SPECIALLY CONCERNED WITH BACKING UP DATA RECORDED IN A MEMORY CARD TO A DISK SUCH AS A CD OR A DVD**

Inventor: LIM JUN KYU

Applicant: LIM JUN KYU

EC:

IPC: *G11B20/04*; G11B20/04; (IPC1-7): G11B20/04

Publication info: **KR20050018264** - 2005-02-23

**18    BACKUP SYSTEM AND BACKUP METHOD FOR RESTORING FILE TO VERSION OF SPECIFIED DATE/TIME, AND PROGRAM FOR CAUSING COMPUTER TO EXECUTE METHOD**

Inventor: KURAHASHI HIROSHI; NAKAJIMA SHU; (+1)

Applicant: IBM JAPAN

EC:

IPC: *G06F12/00*; G06F12/00

Publication info: **JP2006277563** - 2006-10-12

**19    PRINTER, BACKUP METHOD, PROGRAM AND STORAGE MEDIUM**

Inventor: MOROZUMI HIDEKI; SAKUTA KENJI

Applicant: SEIKO EPSON CORP

EC:

IPC: *B41J5/30; B41J29/42; G06F3/06* (+9)

Publication info: **JP2006272788** - 2006-10-12

**20    PATH SWITCHING SYSTEM AND METHOD FOR BACKUP SYSTEM**

Inventor: USAMI KAZUHIRO

Applicant: HITACHI COMP PERIPHERALS CO

**RESULT LIST**
Approximately **646** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
(Results are sorted by date of upload in database)

**21  BACKUP SYSTEM, PROGRAM, BACKUP SERVER AND BACKUP METHOD**

Inventor: MISHIMA HIROSHI; MATSUO TOMOKAZU; (+7)

Applicant: CHUGOKU ELECTRIC POWER; EN COMM INC

EC:

IPC: *G06F12/00; G06F21/24*; G06F12/00 (+1)

Publication info: **JP2006268364** - 2006-10-05

**22  Data backup and transfer system, method and computer program product**

Inventor: FIDUCCI THOMAS E (US)

Applicant:

EC:

IPC: *G06F15/177*; G06F15/16

Publication info: **US2006242273** - 2006-10-26

**23  ELECTRONIC DOCUMENT BACKUP/RECOVERY DEVICE AND METHOD THEREOF**

Inventor: JUNG YUN GYEONG (KR); LIM YEONG SUK (KR)

Applicant: KOREA TELECOMMUNICATION (KR)

EC:

IPC: *G06F17/40*; G06F17/40; (IPC1-7): G06F17/40

Publication info: **KR20010064801** - 2001-07-11

**24  BACKUP CONTROL METHOD FOR IMAGE FORMING DEVICE**

Inventor: KIMURA SHINICHI

Applicant: KYOCERA MITA CORP

EC:

IPC: *G06F3/12; B41J29/38; H04N1/21* (+3)

Publication info: **JP2006252054** - 2006-09-21

**25  COMPUTER SYSTEM AND BACKUP METHOD FOR DATA IN COMPUTER SYSTEM**

Inventor: NAKANO TAKAHIRO; NAKATANI YOJI; (+2)

Applicant: HITACHI LTD

EC: G06F11/14A4B1M6

IPC: *G06F21/24; G06F12/00*; G06F21/00 (+1)

Publication info: **JP2006251936** - 2006-09-21

**26  Backup/recovery system and methods regarding the same**

Inventor: WU SWORD (CN); YAN TREE (CN)

Applicant: FAR STONE TECH INC

EC:

IPC: *G06F9/455*; G06F9/455

Publication info: **US2006217952** - 2006-09-28

**27  Threat event-driven backup**

Inventor: CARTER-SCHWENDLER CARL M (US); KRAMER MICHAEL (US)

Applicant: MICROSOFT CORP (US)

EC:

IPC: *G06F11/00*; G06F11/00

Publication info: **US2006218439** - 2006-09-28

**28  Non-volatile backup for data cache**

Inventor: ACTON JOHN D (US); LEE WHAY S (US)

Applicant:

EC:

IPC: *G06F12/00*; G06F12/00

Publication info: **US2006212644** - 2006-09-21

**29  Method for auto backup**

Inventor: CHOU PING-HSIANG (TW)

Applicant: MITAC INT CORP (TW)

EC:

IPC: *G06F12/16*; G06F12/16; (IPC1-7): G06F12/16

Publication info: **TW240168B** - 2005-09-21

**30  SYSTEM FOR DIRECT PEER TO PEER DISTRIBUTED NETWORK USING WEB SHARED BACKUP STORING DEVICE**

**RESULT LIST**
Approximately **646** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
(Results are sorted by date of upload in database)

**31** DEVICE AND METHOD FOR BACKUP/RECOVERY WITHOUT
PROCESSING LOG ON MMDB
Inventor: CHOI MI SEON (KR); CHOI WAN (KR); (+5)    Applicant: KOREA ELECTRONICS TELECOMM (KR)

EC:                                          IPC: *G06F12/16*; G06F12/16; (IPC1-7): G06F12/16

Publication info: **KR20020047601** - 2002-06-22

**32** Universal serial bus backup device
Inventor: CHIH YUNG-CHAO (TW)                 Applicant:

EC:                                          IPC: *G06F11/00*; G06F11/00

Publication info: **US2006206759** - 2006-09-14

**33** System and method for computer backup and recovery using
incremental file-based updates applied to an image of a storage device
Inventor: LEVY ITZHAK (US); OLIVA DARIO (US); (+1)    Applicant: ARCO COMP PRODUCTS LLC

EC:                                          IPC: *G06F12/16*; G06F12/16

Publication info: **US2006200639** - 2006-09-07

**34** Mapping driver for use in data backup systems
Inventor: BROMLEY GRAHAM (US); WU WEIBAO (US)    Applicant: VERITAS OPERATING CORP (US)

EC:                                          IPC: *G06F12/00; G06F7/00; G06F17/30* (+3)

Publication info: **US7099900** - 2006-08-29

**35** Automatic backup and recovery device for computer system and
implementation method method thereof
Inventor: ZHANG PINGSHUN (CN)                 Applicant: ZHANG PINGSHUN (CN)

EC:                                          IPC: *G06F11/14*; G06F11/14

Publication info: **CN1808393** - 2006-07-26

**36** Disaster recovery and backup using virtual machines
Inventor: VAN RIETSCHOTE HANS F (US)          Applicant: VERITAS OPERATING CORP (US)

EC:                                          IPC: *G06F12/00*; G06F12/00

Publication info: **US7093086** - 2006-08-15

**37** Storage system, backup system, and backup method
Inventor: IDO TAKESHI (JP); URABE KIICHIRO (JP)    Applicant:

EC:                                          IPC: *G06F3/06; G06F15/16; G06F12/00* (+3)

Publication info: **US2006179122** - 2006-08-10

**38** BACKUP MANAGEMENT DEVICE, BACKUP MANAGEMENT METHOD,
COMPUTER PROGRAM, RECORDING MEDIUM, INTEGRATED CIRCUIT,
AND BACKUP SYSTEM
Inventor: FUJIOKA SOICHIRO (JP); HARADA SHUNJI    Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP);
(JP); (+4)                                   FUJIOKA SOICHIRO (JP); (+5)
EC:                                          IPC: *G06F21/24; G06Q50/00; H04L9/32* (+3)

Publication info: **WO2006080510** - 2006-08-03

**39** AUTOMATIC DATA BACKUP SYSTEM
Inventor: MARUOKA SHINJI                      Applicant: HITACHI LTD

EC:                                          IPC: *G06F12/00; G06F3/06*; G06F12/00 (+1)

Publication info: **JP2006178551** - 2006-07-06

**40** DATA BACKUP SYSTEM AND IMAGE FORMING APPARATUS
Inventor: OGURI SATOSHI; YOSHIDA TOSHINOBU;    Applicant: KYOCERA MITA CORP
(+2)

**RESULT LIST**
Approximately **638** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
(Results are sorted by date of upload in database)

**41    IMAGE PROCESSOR, BACKUP SERVER DEVICE, AND PROGRAM**

Inventor: KOMATA SHINGO           -                    Applicant: CASIO COMPUTER CO LTD

EC:                                                    IPC: *G06F13/00; G06F12/00; G06F15/00* (+7)

Publication info: **JP2006127003** - 2006-05-18

**42    Backup/recovery system and methods regarding the same**

Inventor: WANG GEORGE (CN); YOUNG YI M (CN)    Applicant: FARSTONE TECH INC

EC:                                                    IPC: *G06F12/16*; G06F12/16

Publication info: **US2006161748** - 2006-07-20

**43    Method and system for backup data access through standard network
file sharing protocols**

Inventor: SIKHA SRIDHAR (US)                    Applicant:

EC:                                                    IPC: *G06F12/14; G06F7/00*; G06F7/00 (+1)

Publication info: **US2006149889** - 2006-07-06

**44    PRINTER, DATA BACKUP METHOD, DATA FILE GENERATION
METHOD AND PROGRAM**

Inventor: FURUHASHI RYUSUKE                    Applicant: SONY CORP

EC:                                                    IPC: *B41J5/30; G06F3/12; G06F12/00* (+3)

Publication info: **JP2006137005** - 2006-06-01

**45    BACKUP METHOD AND SYSTEM FOR OPERATION AND
MAINTENANCE CENTERS OF A TELECOMMUNICATION SYSTEM
USING STORAGE BASED ACTIVITY DETECTION**

Inventor: BAUM MICHAEL (DE)                    Applicant: SIEMENS AG (DE); BAUM MICHAEL (DE)

EC:                                                    IPC: *G06F11/20*; G06F11/20

Publication info: **WO2006069891** - 2006-07-06

**46    Information processing apparatus, information equipment, information
processing system, automatic backup method, data transmission and
reception method, automatic backup program, data transmission and
reception program, and record medium having the p...**

Inventor: SHIGETA DAISUKI (JP); UNO HIROSHI (JP);    Applicant: SHARP KK (JP)
(+1)
EC:                                                    IPC: *G06F11/14; G06F9/46*; G06F9/46 (+1)

Publication info: **EP1674998** - 2006-06-28

**47    Data backup method for a communication apparatus**

Inventor: WOLDEAB JERRY MUSE (DE); TAUTGES INGO    Applicant: WOLDEAB JERRY MUSE (DE); TAUTGES
(DE); (+3)                                         INGO (DE); (+1)
EC:                                                    IPC: *G06F11/14; H04Q7/32*; G06F11/14 (+1)

Publication info: **EP1667021** - 2006-06-07

**48    Storage/backup device of wafer manufacturing equipment**

Inventor: SHIE LI-LING (TW)                    Applicant: WELLTECH SEMICONDUCTOR INC (TW)

EC:                                                    IPC: *H01L21/02*; H01L21/02; (IPC1-7): H01L21/02

Publication info: **TW263615Y** - 2005-05-01

**49    COMPUTER BACKUP SYSTEM OPERABLE IN OPENED STATE OF FILE**

Inventor: MALCOLM PETER B                    Applicant: CHEYENNE ADVANCED TECH LTD

EC: G06F11/14A4B1M8                            IPC: *G06F12/00; G06F12/16; G06F3/06* (+7)

Publication info: **JP2006099784** - 2006-04-13

**50  One-touch backup system**

Inventor: POPELL ANDREW (US); BETTS-LACROIX      Applicant:
JONATHAN (US)

EC:                                              IPC: *G06F11/00; G06F12/16*; G06F11/00 (+1)

Publication info: **US2006085675** - 2006-04-20

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**RESULT LIST**
Approximately **638** results found in the Worldwide database for:
**backup** in the title AND **storage device** in the title or abstract
Only the first **500** results are displayed.
(Results are sorted by date of upload in database)

**51** **System and method for providing a backup-restore solution for active-standby service management systems**
Inventor: AMIDI ERFAN (US)
Applicant: SBC KNOWLEDGE VENTURES L P

EC:
IPC: *H04M3/08; H04M3/22*; H04M3/08 (+1)

Publication info: **US2006078092** - 2006-04-13

**52** **Non-Volatile Memory Backup for Network Storage System**
Inventor: SPIERS JOHN (US); LOFFREDO MARK (US); (+2)
Applicant: LEFTHAND NETWORKS INC (US)

EC:
IPC: *G06F12/00*; G06F12/00

Publication info: **US2006080515** - 2006-04-13

**53** **RECORDING DEVICE AND BACKUP METHOD**
Inventor: KITSUKA YOSHIHISA
Applicant: TOKYO SHIBAURA ELECTRIC CO

EC:
IPC: *G06F12/00; G11B20/10; G11B27/00* (+7)

Publication info: **JP2006085622** - 2006-03-30

**54** **Terminal device and data backup system for the same**
Inventor: TSUNEKAWA TAKU (JP); SASAKI HIROSHI (JP); (+1)
Applicant:

EC: H04L12/56B
IPC: *G06F15/16; G06F12/00*; G06F12/00 (+1)

Publication info: **US2006069711** - 2006-03-30

**55** **Storage medium contents backup copy providing method, involves including file system with data files and administrative information on storage medium, where positive examination result is observed in structure**
Inventor: SCHOENE-WARNEFELD AREND (DE); HARTMANN KLAUS (DE)
Applicant: FUJITSU SIEMENS COMPUTERS GMBH (DE)

EC:
IPC: *G06F11/00; G06F17/30*; G06F11/00 (+1)

Publication info: **DE102004047315** - 2006-03-30

**56** **SYSTEM FOR SELECTING BACKUP STORAGE DEVICE**
Inventor: HELLIKER FABRICE; CHAPPELL SIMON; (+1)
Applicant: BACKBONE SOFTWARE INC

EC: G06F11/14A4B1
IPC: *G06F12/00; G06F11/14*; G06F11/14 (+1)

Publication info: **JP2006053885** - 2006-02-23

**57** **Storage backup system for backing up data written to a primary storage device to multiple virtual mirrors using a reconciliation process that reflects the changing state of the primary storage device over time**
Inventor: RAFERT JAMES LEE (US); MARTIN MARCIA R (US); (+1)
Applicant: STORAGE TECHNOLOGY CORP (US)

EC:
IPC: *G06F12/16*; G06F12/16

Publication info: **US7007044** - 2006-02-28

**58** **Automatic backup method**
Inventor: ZHOU BINGXIANG (CN)
Applicant: SHUNDA COMP FACTORY CO LTD SHU (CN)

EC:
IPC: *G06F11/20*; G06F11/20

Publication info: **CN1722099** - 2006-01-18

**59** **Apparatus, system, and method for differential backup using snapshot on-write data**
Inventor: ADKINS JANET E (US); CHANG JOON (US); (+1)
Applicant:

**60  BACKUP STORAGE PROCESSING DEVICE, BACKUP STORAGE
PROCESSING METHOD, BACKUP STORAGE PROCESSING
PROGRAM, AND RECORDING MEDIUM**

Inventor: TAKAMUNE YOSHIFUMI; KASAI HIROAKI       Applicant: DAINIPPON PRINTING CO LTD

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**RESULT LIST**
4 results found in the Worldwide database for:
**synchronous** in the title AND **files and storage** in the title or abstract
(Results are sorted by date of upload in database)

**1    Method system and apparatus for synchronous update of files**
Inventor: YANG LONGHE (CN)                    Applicant: LANGKE SCIENCE TECHNOLOGY CO L (CN)

EC:                                           IPC: *G06F11/14*; **G06F11/14**; (IPC1-7): G06F11/14

Publication info: **CN1677355** - 2005-10-05

**2    MP3 playback device having multi-file synchronous playing function
     and its method**
Inventor: CHEN HUAIYAN (CN); DONG XIAOQIAN (CN); Applicant: WUDI TECH XIAN CO LTD (CN)
(+1)
EC:                                           IPC: *G11C7/16*; **G11C7/00**; (IPC1-7): G11C7/16

Publication info: **CN1564261** - 2005-01-12

**3    COMPUTER SYSTEM, SYNCHRONOUS PROCESSING METHOD USED
     IN ITS SYSTEM, AND STORAGE MEDIUM**
Inventor: MIZUHARA KUMIKO                     Applicant: TOKYO SHIBAURA ELECTRIC CO

EC: H04L29/06; H04L29/06C5; (+3)             IPC: *G06F15/16; G06F9/445; G06F12/00* (+14)

Publication info: **JP11249973** - 1999-09-17

**4    SECOND PROXIMATE COMMUNICATION NETWORK-SYSTEM AND
     METHOD FOR SYNCHRONOUS VECTOR-PROCESSOR**
Inventor: JIMU CHIRUDAASU; PIITAA RAINETSUKU; Applicant: TEXAS INSTRUMENTS INC
(+2)
EC: G06F15/80A1                              IPC: *G06F9/28; G06F9/38; G06F15/16* (+20)

Publication info: **JP4036856** - 1992-02-06

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**RESULT LIST**

3 results found in the Worldwide database for:
**synchronous** in the title AND **storage and backup** in the title or abstract
(Results are sorted by date of upload in database)

**1    Synchronous replication for system and data security**

Inventor: KISELEV OLEG (US)                    Applicant: VERITAS OPERATING CORP (US)

EC:                                            IPC: *G06F12/14*; G06F12/14

Publication info: **US7149858** - 2006-12-12

**2    Method system and apparatus for synchronous update of files**

Inventor: YANG LONGHE (CN)                     Applicant: LANGKE SCIENCE TECHNOLOGY CO L (CN)

EC:                                            IPC: *G06F11/14*; G06F11/14; (IPC1-7): G06F11/14

Publication info: **CN1677355** - 2005-10-05

**3    Information processing apparatus including synchronous storage having backup registers for storing the latest sets of information to enable state restoration after interruption**

Inventor: NAGASHIMA TETSURO (JP); KAWANISHI     Applicant: FUJITSU LTD (JP)
TOSHIHARU (JP); (+3)
EC: G06F11/14A2M                                IPC: *G06F12/16; G06F11/14; G06F11/22* (+7)

Publication info: **US5701436** - 1997-12-23

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Data supplied from the *esp@cenet* database - Worldwide